AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions of the claims in the application.

1. (Currently Amended) A method ~~for allocating a dedicated channel~~ for transmitting a packet at a code division multiple access (CDMA) media access control (MAC) layer control unit to transmit a packet data between a mobile station (MS) and a base station (BS) in a CDMA mobile communication system including the MS and the BS, the method comprising the steps of:

a) when the packet is generated, by a MAC layer control unit of the MS, determining a service option of the packet; and

b) if the service option of the packet is a packet burst mode service, transmitting the packet via a common traffic channel (CTCH), and if the service option of the packet is ~~link-oriented~~ a packet data mode service, by the MAC layer control unit of the MS, requesting to allocate a dedicated control channel (DCCH) ~~and~~, receiving the DCCH~~;~~

~~c) by the MAC layer control unit of the MS~~, requesting to allocate a dedicated traffic channel (DTCH) ~~and~~, receiving the DTCH~~; and~~

~~d) by the MAC layer control unit of the MS~~, and transmitting the packet via the DTCH.

2. (Original) The method as recited in claim 1, wherein the MAC layer control unit of the MS is transited to a suspended state, before determining the service option of the packet.

3. (Original) The method as recited in claim 1, wherein the MAC layer control unit of the MS requests a MAC layer control unit of the BS to allocate the DCCH.

4. (Currently Amended) The method as recited in claim 1, further comprising ~~wherein the step c) includes~~ the steps of:

~~c1)~~ if the DCCH is allocated before a suspended state timer is expired, transiting the MAC layer control unit of the MS to a control hold state~~; and~~

~~c2)~~ , before requesting the MAC layer control unit of the BS to allocate the DTCH.

5. (Currently Amended) The method as recited in claim 1, further comprising ~~wherein the step d) includes~~ the step of:

~~d1)~~ if the DTCH is allocated before a control hold state timer is expired, transiting the MAC layer control unit of the MS to an active state before transmitting the packet via the DTCH~~;~~,

~~d2)~~ transmitting the packet, before an active state timer is expired~~;~~ and

~~d3)~~ after the active state timer is expired, transiting the MAC layer control unit of the MS to the control hold state.

6. (Cancelled)

7. (Currently Amended) The method as recited in claim 5, further comprising ~~wherein step d) further includes~~ the step of:

~~d4)~~ if the DTCH is not allocated before a control hold state timer is expired, transiting the MAC layer control unit of the MS to the suspended state or back to the control hold state.

8. (Currently Amended) The method as recited in claim 7, wherein a probability of transiting to the suspended state equals $(1-\mu_D)/Tc$ and a probability of transiting back to the control hold state equals $(1-\mu_D)(1-(1/Tc))$ where the μ_D denotes a request rate of the DTCH and Tc denotes a control hold state timer value.

9. (Currently Amended) The method as recited in claim 4, further comprising ~~wherein step c) further includes~~ the step of:

~~d3)~~ if the DCCH is not allocated before a suspended state timer is expired, transiting the MAC layer control unit of the MS to a dormant state or back to the suspended state.

10. (Original) The method as recited in claim 9, wherein a probability of transiting to the dormant state equals $(1-\lambda_D)/Ts$ and a probability of transiting back to the suspended state equals $(1-\lambda_D)(1-(1/Ts))$ where the λ_D denotes a request rate of the DCCH and Ts denotes a suspended state timer value.